



Monarch Monitoring: Citizen Scientists



Name: Heather Anderson

Teaching content area: 2nd grade, STEM Lesson

School: Grant Ragan Elementary

Extern host site: Neal Smith National Wildlife Refuge

Part I: Overview of Business

- Neal Smith National Wildlife Refuge, U.S. Fish & Wildlife Service.
- Working with others to conserve, protect, and enhance fish and wildlife and their habitats for the continuing benefit of the American people.

Part III: Introduce the Problem The monarch butterfly population is in decline.

Part V: Business Solution

- Pollard Walk: Collecting data in transects within varied subplots in the prairie in order to generate species abundance and track population trends.
- Recording any nectaring prairie plants and milkweed plants.

Part II: Job Specifics

•Biotech Intern: biology interns monitor and perform prairie and savanna restoration, including monitoring plants and wildlife, propagating plants in the greenhouse, planting seedling prairie plants, handharvesting seeds of native prairie plants, data entry and management.

Part IV: Background

- Life cycle of the monarch butterfly.
- Habitat of the monarch butterfly.
- Why monarch butterflies are important: pollination.
- Host plant identification: milkweed plants.

Part VI: Student Solutions

- Habitat loss.
- Importance of native habitats.
- Relationship between host plant/monarch.